

**DERWENT-ACC-** 1987-189272

**NO:**

**DERWENT-** 198727

**WEEK:**

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**TITLE:** Fluorine-contg. alkane sulphonic acid ion dopants - for  
conductive organic high molecular cpds.

**PATENT-ASSIGNEE:** AGENCY OF IND SCI & TECHNOLOGY[AGEN]

**PRIORITY-DATA:** 1985JP-0258770 (November 20, 1985)

**PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>	<b>PAGES</b>	<b>MAIN-IPC</b>
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JP 62119237 A	May 30, 1987	N/A	005	N/A
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JP 89038808 B	August 16, 1989	N/A	000	N/A
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**APPLICATION-DATA:**

<b>PUB-NO</b>	<b>APPL-DESCRIPTOR</b>	<b>APPL-NO</b>	<b>APPL-DATE</b>
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JP 62119237A	N/A	1985JP-0258770	November 20, 1985
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**INT-CL (IPC):** C08G061/12, C08G073/00 , C08K005/42 , H01B001/12

**ABSTRACTED-PUB-NO:** JP 62119237A

**BASIC-ABSTRACT:**

Fluorine-contg. alkane sulphonic acid ion type dopants are of formula (I):

$\text{XF}_2\text{C}-(\text{CF}_2)_n-\text{SO}_3(-)$  (I)

(where  $n = 3-20$ ;  $X = H$  or  $F$ ). Organic high molecular cpds. into which dopants are introduced include polypyrrole, polythiophene, polyaniline, polyfuran and their derivs. Electrochemical method for introduction of the dopants into polymers is applied to charge-transfer complex type high molecular cpds., e.g. polypyrrole, polythiophene or polyfuran. Chemical method is pref. applied to polyion complex polymers e.g. polyaniline. The electrolytes for the electrochemical method are F-contg. alkane sulphonic acids of formula  $XF_2C-(CF_2)_n-SO_3H$  (II) and their salts.

USE - For the mfr. of flexible switch, sensor, EMI material, antistatic material, photoelectric exchange elements, sec. batteries.

**CHOSEN-DRAWING:** Dwg.0/0.

**TITLE-TERMS:** FLUORINE CONTAIN ALKANE SULPHONIC ACID ION  
DOPE CONDUCTING ORGANIC HIGH MOLECULAR  
COMPOUND

**ADDL-INDEXING-TERMS:** POLY PYRROLE FURAN THIOPHENE ANILINE

**DERWENT-CLASS:** A26 E16 L03 V03 V04 X12 X16

**CPI-CODES:** A09-A03; A10-E04A; A10-E12A; E10-A09B8; L03-B04A; L03-E03;

**EPI-CODES:** V03-A01A; V04-U; X12-D01C; X16-E01;

**CHEMICAL-CODES:** Chemical Indexing M3 \*01\* Fragmentation Code H6 H601 H607  
H609 H684 H685 H689 K0 K4 K431 M280 M314 M321 M332  
M344 M362 M391 M416 M620 M781 M903 M904 Q130 Q454  
R043 Markush Compounds 198727-C2401-U Registry Numbers  
87140 1286M

#### **POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:**

**Key Serials:** 0016 0018 0203 0210 0226 0229 1311 3194 1685 1741 1756  
1934 1962 2012 2022 2152 2174 2181 2198 2207 2513 2551  
2553 2589 2628 2654 2739 3278 2743

**Multipunch Codes:** 014 02& 03- 05- 062 064 151 153 175 185 190 191 205 225 231  
249 250 344 346 358 359 435 506 509 511 516 518 546 551 560  
566 57& 575 58& 596 60- 623 627 683 692 720 722 724

**SECONDARY-ACC-NO:**

**CPI Secondary Accession Numbers:** C1987-079034

**Non-CPI Secondary Accession Numbers:** N1987-141421